

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

10/660,118	
oire	
9-24-03	
	oire

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS. PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/601118
ATTN: NEW RULES CASE	S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
	The number/text at the end of each line "wranged" down to the part line. This was a second
2Invalid Line Lengt	h The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11Use of <220>	Sequence(s) ————————————————————————————————————
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
•	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



DATE: 09/24/2003

OIPE

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TIME: 10:37:18
                     PATENT APPLICATION: US/10/660,118
                     Input Set : A:\2879-98.ST25.txt
                     Output Set: N:\CRF4\09242003\J660118.raw
      3 <110> APPLICANT: White, Carl W.
      5 <120> TITLE OF INVENTION: Product and Process for Liquefaction of Mucus or Sputum
      7 <130> FILE REFERENCE: 2879-98
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/660,118
C--> 9 <141> CURRENT FILING DATE: 2003-09-10
      9 <150> PRIOR APPLICATION NUMBER: 60/409,960
     10 <151> PRIOR FILING DATE: 2002-09-10
     12 <150> PRIOR APPLICATION NUMBER: 60/462,082
     13 <151> PRIOR FILING DATE: 2003-04-11
     15 <160> NUMBER OF SEQ ID NOS: 15
     17 <170> SOFTWARE: PatentIn version 3.1
                                                               Corrected Diskette Needed
                                                               Does Not Comply
     19 <210> SEQ ID NO: 1
     20 <211> LENGTH: 4
     21 <212> TYPE: PRT
     22 <213> ORGANISM: Artificial sequence
     24 <220> FEATURE:
                                          Ansuticient explanation
     25 <223> OTHER INFORMATION: peptide
                                          give source of genetic material
see Hon II on error summary
     27 <400> SEQUENCE: 1
     29 Cys Gly Pro Cys
     30 1
     33 <210> SEQ ID NO: 2
     34 <211> LENGTH: 6
     35 <212> TYPE: PRT
     36 <213> ORGANISM: Artificial sequence
     38 <220> FEATURE:
     39 <223> OTHER INFORMATION: peptide
     41 <220> FEATURE:
     42 <221> NAME/KEY: misc feature
     43 <222> LOCATION: (1)..(6)
     44 <223> OTHER INFORMATION: Xaa = any amino acid
     47 <400> SEQUENCE: 2
W--> 49 Xaa Cys Gly Pro Cys Xaa
     50 1
     53 <210> SEQ ID NO: 3
     54 <211> LENGTH: 6
     55 <212> TYPE: PRT
     56 <213> ORGANISM: Artificial sequence
     58 <220> FEATURE:
     59 <223> OTHER INFORMATION: peptid
      61 <400> SEQUENCE: 3
     63 Trp Cys Gly Pro Cys Lys
      64 1
```

RAW SEQUENCE LISTING

67 <210> SEQ ID NO: 4

RAW SEQUENCE LISTING DATE: 09/24/2003.
PATENT APPLICATION: US/10/660,118 TIME: 10:37:18

Input Set : A:\2879-98.ST25.txt

Output Set: N:\CRF4\09242003\J660118.raw

```
68 <211> LENGTH: 109
69 <212> TYPE: PRT
70 <213> ORGANISM: Pseudomonas syringae
72 <400> SEQUENCE: 4
74 Met Ser Asn Asp Leu Ile Lys His Val Thr Asp Ala Ser Phe Glu Ala
78 Asp Val Leu Lys Ala Asp Gly Ala Val Leu Val Asp Tyr Trp Ala Glu
82 Trp Cys Gly Pro Cys Lys Met Ile Ala Pro Val Leu Asp Glu Ile Ala
                              40
86 Thr Thr Tyr Ala Gly Lys Leu Thr Ile Ala Lys Leu Asn Ile Asp Glu
90 Asn Gln Glu Thr Pro Ala Lys His Gly Val Arg Gly Ile Pro Thr Leu
                      70
94 Met Leu Phe Lys Asn Gly Asn Val Glu Ala Thr Lys Val Gly Ala Leu
               85
                                      90
98 Ser Lys Ser Gln Leu Ala Ala Phe Leu Asp Ala Asn Ile
99 100
102 <210> SEQ ID NO: 5
103 <211> LENGTH: 104
104 <212> TYPE: PRT
105 <213> ORGANISM: Porphyromonas gingivalis
107 <400> SEQUENCE: 5
109 Met Ala Leu Gln Ile Thr Asp Ala Thr Phe Asp Gly Leu Val Ala Glu
110 1
                  5
113 Gly Lys Pro Met Val Val Asp Phe Trp Ala Thr Trp Cys Gly Pro Cys
                                   25
     20
117 Arg Met Val Gly Pro Ile Ile Asp Glu Leu Ala Ala Glu Tyr Glu Gly
121 Arg Ala Ile Ile Gly Lys Val Asp Val Asp Ala Asn Thr Glu Leu Pro
                           55
        50
125 Met Lys Tyr Gly Val Arg Asn Ile Pro Thr Ile Leu Phe Ile Lys Asn
                       70
                                           75
129 Gly Glu Val Val Lys Lys Leu Val Gly Ala Gln Ser Lys Asp Val Phe
                   85
133 Lys Lys Glu Leu Asp Ala Leu Phe
               100
137 <210> SEQ ID NO: 6
138 <211> LENGTH: 103
139 <212> TYPE: PRT
140 <213> ORGANISM: Listeria monocytogenes
142 <400> SEQUENCE: 6
144 Met Val Lys Glu Ile Thr Asp Ala Thr Phe Glu Gln Glu Thr Ser Glu
                                        10
                   5
148 Gly Leu Val Leu Thr Asp Phe Trp Ala Thr Trp Cys Gly Pro Cys Arg
                                   25
152 Met Val Ala Pro Val Leu Glu Glu Ile Gln Glu Glu Arg Gly Glu Ala
                               40
```

156 Leu Lys Ile Val Lys Met Asp Val Asp Glu Asn Pro Glu Thr Pro Gly

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/660,118

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TIME: 10:37:18

Input Set : A:\2879-98.ST25.txt

Output Set: N:\CRF4\09242003\J660118.raw

```
157
       50
160 Ser Phe Gly Val Met Ser Ile Pro Thr Leu Leu Ile Lys Lys Asp Gly
                                           75
                      70
164 Glu Val Val Glu Thr Ile Ile Gly Tyr Arg Pro Lys Glu Glu Leu Asp
                   85
168 Glu Val Ile Asn Lys Tyr Val
               100
169
172 <210> SEQ ID NO: 7
173 <211> LENGTH: 103
174 <212> TYPE: PRT
175 <213> ORGANISM: Saccharomyces cerevisiae
177 <400> SEQUENCE: 7
179 Met Val Thr Gln Phe Lys Thr Ala Ser Glu Phe Asp Ser Ala Ile Ala
183 Gln Asp Lys Leu Val Val Val Asp Phe Tyr Ala Thr Trp Cys Gly Pro
184 . 20
                                    25
187 Cys Lys Met Ile Ala Pro Met Ile Glu Lys Phe Ser Glu Gln Tyr Pro
                               40
188 35
191 Gln Ala Asp Phe Tyr Lys Leu Asp Val Asp Glu Leu Gly Asp Val Ala
                           55
195 Gln Lys Asn Glu Val Ser Ala Met Pro Thr Leu Leu Leu Phe Lys Asn
                       70
                                           75
199 Gly Lys Glu Val Ala Lys Val Val Gly Ala Asn Pro Ala Ala Ile Lys
                                        90
                85
203 Gln Ala Ile Ala Ala Asn Ala
                100
204
207 <210> SEQ ID NO: 8
208 <211> LENGTH: 105
209 <212> TYPE: PRT
210 <213> ORGANISM: Gallus gallus
212 <400> SEQUENCE: 8
214 Met Val Lys Ser Val Gly Asn Leu Ala Asp Phe Glu Ala Glu Leu Lys
                                        10
218 Ala Ala Gly Glu Lys Leu Val Val Val Asp Phe Ser Ala Thr Trp Cys
                                    25
               20
222 Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Cys Asp Lys
           35
                                40
226 Phe Gly Asp Val Val Phe Ile Glu Ile Asp Val Asp Asp Ala Gln Asp
230 Val Ala Thr His Cys Asp Val Lys Cys Met Pro Thr Phe Gln Phe Tyr
                        70
234 Lys Asn Gly Lys Lys Val Gln Glu Phe Ser Gly Ala Asn Lys Glu Lys
                   85
238 Leu Glu Glu Thr Ile Lys Ser Leu Val
               100
242 <210> SEQ ID NO: 9
243 <211> LENGTH: 105
244 <212> TYPE: PRT
245 <213> ORGANISM: Mus musculus
```

RAW SEQUENCE LISTING DATE: 09/24/2003 PATENT APPLICATION: US/10/660,118 TIME: 10:37:18

Input Set : A:\2879-98.ST25.txt

Output Set: N:\CRF4\09242003\J660118.raw

```
247 <400> SEQUENCE: 9
249 Met Val Lys Leu Ile Glu Ser Lys Glu Ala Phe Gln Glu Ala Leu Ala
                                        10
253 Ala Ala Gly Asp Lys Leu Val Val Val Asp Phe Ser Ala Thr Trp Cys
                                    25
257 Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Cys Asp Lys
261 Tyr Ser Asn Val Val Phe Leu Glu Val Asp Val Asp Asp Cys Gln Asp
                            55
265 Val Ala Ala Asp Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Tyr
                        70
                                            75
269 Lys Lys Gly Gln Lys Val Gly Glu Phe Ser Gly Ala Asn Lys Glu Lys
                   85
273 Leu Glu Ala Ser Ile Thr Glu Tyr Ala
               100
277 <210> SEQ ID NO: 10
278 <211> LENGTH: 105
279 <212> TYPE: PRT
280 <213> ORGANISM: Rattus norvegicus
282 <400> SEQUENCE: 10
284 Met Val Lys Leu Ile Glu Ser Lys Glu Ala Phe Gln Glu Ala Leu Ala
                                       . 10
288 Ala Ala Gly Asp Lys Leu Val Val Val Asp Phe Ser Ala Thr Trp Cys
                20
                                    25
292 Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Cys Asp Lys
                                40
           35
296 Tyr Ser Asn Val Val Phe Leu Glu Val Asp Val Asp Asp Cys Gln Asp
                          - 55
300 Val Ala Ala Asp Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Tyr
                        70
304 Lys Lys Gly Gln Lys Val Gly Glu Phe Ser Gly Ala Asn Lys Glu Lys
                   85
308 Leu Glu Ala Thr Ile Thr Glu Phe Ala
               100
309
312 <210> SEQ ID NO: 11
313 <211> LENGTH: 105
314 <212> TYPE: PRT
315 <213> ORGANISM: Bos taurus
317 <400> SEQUENCE: 11
319 Met Val Lys Gln Ile Glu Ser Lys Tyr Ala Phe Gln Glu Ala Leu Asn
323 Ser Ala Gly Glu Lys Leu Val Val Val Asp Phe Ser Ala Thr Trp Cys
327 Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Ser Glu Lys
                                40
331 Tyr Ser Asn Val Val Phe Leu Glu Val Asp Val Asp Asp Cys Gln Asp
                            55
335 Val Ala Ala Glu Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Phe
                        70
336 65
```

RAW SEQUENCE LISTING DATE: 09/24/2003 PATENT APPLICATION: US/10/660,118 TIME: 10:37:18

Input Set : A:\2879-98.ST25.txt

Output Set: N:\CRF4\09242003\J660118.raw

```
339 Lys Lys Gly Gln Lys Val Gly Glu Phe Ser Gly Ala Asn Lys Glu Lys
                   85
343 Leu Glu Ala Thr Ile Asn Glu Leu Ile
                100
344
347 <210> SEQ ID NO: 12
348 <211> LENGTH: 105
349 <212> TYPE: PRT
350 <213> ORGANISM: Homo sapiens
352 <400> SEQUENCE: 12
354 Met Val Lys Gln Ile Glu Ser Lys Thr Ala Phe Gln Glu Ala Leu Asp
                                        10
358 Ala Ala Gly Asp Lys Leu Val Val Val Asp Phe Ser Ala Thr Trp Cys
                20
                                    25
362 Gly Pro Cys Lys Met Ile Lys Pro Phe Phe His Ser Leu Ser Glu Lys
                                40
366 Tyr Ser Asn Val Ile Phe Leu Glu Val Asp Val Asp Cys Gln Asp
      50 ·
                            55
370 Val Ala Ser Glu Cys Glu Val Lys Cys Met Pro Thr Phe Gln Phe Phe
                                             75
                        70
374 Lys Lys Gly Gln Lys Val Gly Glu Phe Ser Gly Ala Asn Lys Glu Lys
                    85
375
 378 Leu Glu Ala Thr Ile Asn Glu Leu Val
379
                100
382 <210> SEQ ID NO: 13
383 <211> LENGTH: 134
 384 <212> TYPE: PRT
 385 <213> ORGANISM: Arabidopsis thaliana
 387 <400> SEQUENCE: 13
 389 Met Gly Gly Ala Leu Ser Thr Val Phe Gly Ser Gly Glu Asp Ala Ala
 393 Ala Ala Gly Thr Glu Ser Ser Glu Pro Ser Arg Val Leu Lys Phe Ser
                                     25
                20
 397 Ser Ser Ala Arg Trp Gln Leu His Phe Asn Glu Ile Lys Glu Ser Asn
                                40
      35
 401 Lys Leu Leu Val Val Asp Phe Ser Ala Ser Trp Cys Gly Pro Cys Arg
                             55
 405 Met Ile Glu Pro Ala Ile His Ala Met Ala Asp Lys Phe Asn Asp Val
                                            75
                        70
 406 65
 409 Asp Phe Val Lys Leu Asp Val Asp Glu Leu Pro Asp Val Ala Lys Glu
 413 Phe Asn Val Thr Ala Met Pro Thr Phe Val Leu Val Lys Arg Gly Lys
                                     105
                100
 417 Glu Ile Glu Arg Ile Ile Gly Ala Lys Lys Asp Glu Leu Glu Lys Lys
                                 120
     115
 421 Val Ser Lys Leu Arg Ala
        130
 422
 425 <210> SEQ ID NO: 14
 426 <211> LENGTH: 167
 427 <212> TYPE: PRT
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/660,118

DATE: 09/24/2003 TIME: 10:37:19

Input Set : A:\2879-98.ST25.txt

Output Set: N:\CRF4\09242003\J660118.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 1,6

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/660,118

DATE: 09/24/2003

TIME: 10:37:19

Input Set : A:\2879-98.ST25.txt

Output Set: N:\CRF4\09242003\J660118.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0